



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

**TCN - 03**

Ref: PSER:SCT:ABJ-B1183:TCN-03

Date: 19/04/2011

Sub	Tender change notice (TCN) 03	
Job	PACKAGE-A : Receipt , Handling at site , Erection , testing , commissioning , trial run , handing over of boiler & its auxiliaries and Structural steel works of Mill Bunker Building , Transfer points , Conveyor Galleries etc. of 1x270 MW Unit-1 Phase-II at ANIL, 4x270 MW Chandwa TPP ,Dist- Latehar, Jharkhand  PACKAGE-B : Receipt , Handling at site , Erection , testing , commissioning , trial run , handing over of boiler & its auxiliaries and Structural steel works of Mill Bunker Building , Transfer points , Conveyor Galleries connectiong platform including the interconnections between the bunker buildings of Unit-1 & Unit-2, with Columns and structures for interconnecting galleries etc. of 1x270 MW Unit-2, Phase-II at ANIL, 4x270 MW Chandwa TPP ,Dist- Latehar, Jharkhand	
Ref	1.0	Tender no PSER:SCT:ABJ-B1183:11
	2.0	BHEL's NIT, vide ref no Ref: PSER:SCT: ABJ-B1183 Dated 30/03/2011
	3.0	BHEL TCN-01 ide ref. no. PSER:SCT:ABJ-B1183:TCN-01 Dated 04/04/2011
	4.0	BHEL TCN-02 ide ref. no. PSER:SCT:ABJ-B1183:TCN-02 Dated 16/04/2011
	5.0	Other references (if any).

With reference to above, following points , relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 Due date of submission of offer is extended from 20/04/2011 to 29/04/2011 at 1400 hrs.
- 1.0 Payment Break up in Terms of payment for PART-I JOB (Boiler & Aux ) as per Sl. No. 42.4 of VOLUME-IF , FINAL (PACKAGE-A & B, PART-1 & PART-2 ) page 27 of 49 shall be replaced as per Annexure – A to TCN-03 .
- 3.0 Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached Format only.
- 3.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,  
for BHARAT HEAVY ELECTRICALS LTD

**ENGR (SCT)**

Encl

- 1.0 BHEL clarification : Annexure-A to TCN-02
- 2.0 Revised 'No deviation certificate' format.

पावर सेक्टर पूर्वी क्षेत्र ( मुख्यालय )

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

**FORMAT FOR NO DEVIATION CERTIFICATE  
FOR PACKAGE –A (To be submitted in the bidder's letter head)**

BHARAT HEAVY ELECTRICALS LIMITED,  
Power Sector - Eastern Region,  
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,  
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Package-A : Receipt , Handling at site , Erection , testing , commissioning , trial run , handing over of boiler & its auxiliaries and Structural steel works of Mill Bunker Building , Transfer points , Conveyor Galleries etc. of 1x270 MW Unit-1 Phase-II at ANIL, 4x270 MW Chandwa TPP ,Dist-Latehar, Jharkhand	
Ref	1.0	Tender no PSER:SCT:ABJ-B1183:10.
	2.0	BHEL's NIT, vide reference no Ref: PSER:SCT:ABJ-B1183:11 Dated 30/03/2011.
	3.0	BHEL's TCN-01 , vide ref no PSER:SCT:ABJ-B1183:TCN-01 Dated 04/04/2011.
	4.0	BHEL's TCN-02 , vide ref no PSER:SCT:ABJ-B1183:TCN-02 Dated 16/04/2011.
	5.0	BHEL's TCN-03 , vide ref no PSER:SCT:ABJ-B1183:TCN-03 Dated 19/04/2011.
	6.0	Other references (if any).

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, Integrity Pact (If applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized  
representative of the bidder)

<p>पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय) POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091 फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211798/ 1691</p>
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**ANNEXURE – 2.2****FORMAT FOR NO DEVIATION CERTIFICATE  
FOR PACKAGE –B (To be submitted in the bidder's letter head)**

BHARAT HEAVY ELECTRICALS LIMITED,  
Power Sector - Eastern Region,  
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,  
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Package-B: Receipt , Handling at site , Erection , testing , commissioning , trial run , handing over of boiler & its auxiliaries and Structural steel works of Mill Bunker Building , Transfer points , Conveyor Galleries connecting platform including the interconnections between the bunker buildings of Unit-1 & Unit-2, with Columns and structures for interconnecting galleries etc. of 1x270 MW Unit-2, Phase-II at ANIL, 4x270 MW Chandwa TPP ,Dist- Latehar, Jharkhand	
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	3.0	BHEL's TCN-01 , vide ref no PSER:SCT:ABJ-B1183:TCN-01 Dated 04/04/2011.
	4.0	BHEL's TCN-02 , vide ref no PSER:SCT:ABJ-B1183:TCN-02 Dated 16/04/2011.
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(Signature, date & seal of authorized  
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## ANNEXURE -A TO TCN-03

## TERMS OF PAYMENT FOR STEAM GENERATOR &amp; PIPING

SL NO	Contract (Main Package) Identification ---->			Rotating Machine	ESP	PIPING	INSULATION
	Rate schedule Identification ----->	Pressure Parts & Trim Piping	Non Pressure Parts incl. structures & ducting	1) RM 2) APH & 3) Handling Eqpts	ESP	1)P-91 2) AS 3) CS (HP) 4) CS (LP) 5) SS 6)H&S	1) Castable & Pourable 2) Iron Components 3) Wool mattresses 4) Aluminium sheeting
<b>I</b>	<b>PRO RATA PAYMENTS (85%)</b>						
1.1	ON PRE-ASSEMBLY WHEREVER APPLICABLE ( IF NOT APPLICABLE, THIS PORTION SHALL BE CLUBBED WITH PLACEMENT IN POSITION)	20	25	15	15	20	--
1.2	PLACEMENT IN POSITION	10	10	20	20	20	50
1.3	ALIGNMENT	15	10	20	15	10	15
1.4	WELDING/BOLTING/FIXING	20	15	20	20	15	20
1.5	COMPLETION OF NON DESTRUCTIVE EXAMINATION & STRESS RELIEVING/ HEAT TREATMENT (if not applicable, then this portion to be paid along with welding)	10	--	--	--	5	--
1.6	On Drum Lifting						
1.7	COMPLETION OF ATTACHMENT WELDING, FIN WELDING, SUPPORTS	5					
1.8	COMPLETION OF ROOF SKIN CASING	5					
1.9	INSTALLATION OF TEMPORARY PIPING						
1.10	DISMANTLING OF TEMPORARY PIPING, EDGE PREPARATION AND RETURN TO BHEL STORES, AREA CLEANING						
1.11	HANGERS & SUPPORTS ETC WHEREVER NECESSARY AS PER DRG	--	25	--	--	10	--
1.12	COMPLETION OF FURNACE ALIGNMENT AND FIRE BALL CHECKING						
1.13	COMPLETION OF BACK PASS ALIGNMENT						
1.14	COMPLETION OF VIBRATION SNUBBERS, MECHANICAL SPACERS, CASSETTE BAFFLES, STEAM COOLED SPACERS						
1.15	COMPLETION OF HOPPERS ALONG WITH ALL DOORS, HEATING ELEMENTS, POKING DOORS, ETC	--	0	--	5	--	--

# TERMS OF PAYMENT FOR STEAM GENERATOR & PIPING

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1.16	COMPLETION OF INNER, OUTER ROOF INSULATOR HOUSING, RECTIFIER TRANSFORMERS, PENT HOUSE MONO RAILS, HOISTS ETC	--	--	--	5	--	--
1.17	ERECTION OF EMITTING AND COLLECTING RAPPING SYSTEM WITH ALL DRIVES	--	--	--	5	--	--
1.18	EQUIPMENT TRIAL OPERATION			10			
1.19	HYDRAULIC TEST OR PNEUMATIC TEST					3	
1.20	FLOATING OF LINES, FINAL ADJUSTMENT OF SUPPORTS FOR COLD AND HOT VALUES (if not applicable, this portion to be clubbed along with hydraulic test/pneumatic test)					2	
1.21	<b><u>AIR PRE HEATERS (PG 52)</u></b> From the total amount payable for the PGMA weight at tonnage rates, payment will be regulated as under:						
1.21.1	Completion of Support steel squareness and levelling, Expansion arrangement, Housing panel erection and alignment, Erection, alignment and welding of pedestals						
1.21.2	Completion of Erection, alignment and welding of Support Bearing, Guide Bearing, Rotor post, Bottom and Top centre sections, Hot and cold end connecting plates						
1.21.3	Completion of erection and alignment of modules						
1.21.4	Completion of erection, alignment and welding of Pin Rack assembly and Drive assembly						
1.21.5	Completion of seals setting						
1.21.6	Erection, alignment and welding of Lube oil systems, Cleaning Device, Fire sensing device, Deluge and water wash lines, Observation port and lighting assemblies and other accessories						
1.21.7	Completion of PGMA						

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1.21.8	Air preheater Trial Run						
	<b>TOTAL FOR PRO RATA PAYMENTS (TOTAL 85%)</b>	<b>85</b>	<b>85</b>	<b>85</b>	<b>85</b>	<b>85</b>	<b>85</b>
<b>II</b>	<b>STAGE/MILESTONE PAYMENTS (15%)</b>						
2.1	AIR & GAS TIGHTNESS TEST	--	5	--	1	--	--
2.2	GAS DISTRIBUTION TEST	--	--	--	1	--	--
2.3	CHARGING OF ESP FIELDS	--	--	--	4	--	--
2.4	COMPLETION OF AIR & GAS TIGHTNESS TEST FOR FURNACE	2					
2.5	BOILER HYDRAULIC TEST (DRAINABLE)	2					

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2.6	BOILER HYDRAULIC TEST (NON DRAINABLE)	1					
2.7	Reheater Coils Hydraulic Test	2					
2.8	Clean Air Flow test			1			
2.9	Boiler Light Up	1		1		1	1
2.10	ABO	1	1	1		1	1
2.11	Steam Blowing		2	1		1	1
2.12.	SVF	2				1	1
2.13	Oil Flushing (TG)						
2.14	Barring Gear (TG)						
2.15	Rolling and Synchronisation						
2.16	Coal Firing		2	2	2		1
2.17	Full Load			1		1	1
2.18	Trial Operation of Unit			2	1	2	2
2.19	Completion of sheet covering for Boiler roof, burner roof, lift shaft cladding, completion of gutters						
2.20	Completion of all drains and vents to respective locations and placement of instrument sensors after steam blowing					2	
2.21	Painting	0	1	2	2	2	0
2.22	Area cleaning, temporary structures cutting/removal and return of scrap	1	1	1	1	1	3
2.23	Punch List points/pending points liquidation	1	1	1	1	1	1
2.24	Submission of 'As Built Drawings'						
2.25	Material Reconciliation	1	1	1	1	1	2
2.26	Completion of Contractual Obligation	1	1	1	1	1	1
	<b>TOTAL FOR STAGE/MILESTONE PAYMENTS (15%)</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>

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	<b>TOTAL I + II</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
	*INCLUDING NDE AND SR/HT WHERE EVER APPLICABLE (IF APPLICABLE, WEIGHTAGE OF 10%)						